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Amendments to the Specification:

Please replace the paragraph at page 140, line 57 through page 141, line 15 with the following paragraph:

-- >af161504 (TOXMARKER Assignment: 97; SEQ ID NO: 131 154) qqtqccttatqcqqtqattttaatqataqqtqtcatatataqqacqqaqtaatctqttta cattctqttcttctcqatqcactcacaaqcqqqtaactaqqtqacaaqaaaacaaaqatc ttattcaaaaqaqqtcttacaqcaacccaacqtctcatcttcccatagtaaaqatgacgq $\verb|cgccttgaggtaagctacaggcaacaccacttccgcgtttctctttgcgccctggtccaag|\\$ atggcggatgaagccacgcgacgtgttgtgtctgagatcccggtgctgaagactaacgcc ggaccccgagatcgtgagttgtgggtgcagcgactgaaggaggaatatcagtcccttatc cggtatgtggagaacaacaagaatgctgacaacgattggttccgactggagtccaacaag gaaggaactcggtggtttggaaaatgctggtatatccatgacctcctgaaatatgagttt gacatcgagtttgacattcctatcacatatcctactactgccccagaaattgcagttcct gagctggatggaaagacagcaaagatgtacaggggtggcaaaatatgcctgacggatcat ttcaaacctttgtgggccaggaatgtgcccaaatttggactagctcatctcatggctctg gggctgggtccatggctggcagtggaaatccctgatctgattcagaagggcgtcatccac cacaaaqaqaaatqcaaccaatqaaqaatcaaqccactqaqqcaqqqqaaqqqaccttt gataggctacgatactattttcctqtqcatcacacttaactcatctaactqcttccccqq acaccctccacctctagttqttactaagtagctgcagtaggcattgctggggaagaaaca aacacaccaaacagtactgctacttagtttctaaggctgcacagggaagggaaagact qqqctttqqacaatctaqaqqtaatttatatccqccccaggtggagcaacatgcgattc tggaggcacgggggtaactgaaagtgagtacatatagtctttctggtttctggagataac

Please replace the paragraph at page 145, line 44 through page 146, line 6 with the following paragraph:

-- >aj242973 (TOXMARKER Assignment: 49; SEQ ID NO:139 140) gcggccgcgtcgacgtgacagccggtacgcccgggtttgggcaacctcgattacgggcgg ccqqccqcqqaccccactctctqccqttccqqctqcqqctccqctqccqqtaqcqccqtc ccccgggaccacccttcggctggcgccctcccatgctctcggccacccggagggcttgcc agetectectectecacageetettteeegteeegaggatgggeaacteggeetegaaca tegtcagececeaggaggeettgeegggeeggaaggaacagacecetgtageggeeaaac atcatgtcaatggcaacagaacagtcgaacctttcccagagggaacacagatggctgtat ttggaatgggatgtttctggggagctgaaaggaaattctgggtcttgaaaggagtgtatt caactcaagttggttttgcaggaggctatacttcaaatcctacttataaagaagtctgct ttgaggaactgctcaaggtcttctgggagaatcacgacccgacccaaggtatgcgccagg ggaacgaccatggcactcagtaccgctcggccatctacccgacctctgccaagcaaatgg aggcagccctgagctccaaagagaactaccaaaaggttctttcagagcacggcttcggcc ccatcactaccgacatccgggagggacagactttctactatgcggaagactaccaccagc agtacctgagcaagaaccccaatggctactgcggccttgggggcaccggcgtgtcctgcc cagtgggtattaaaaaataattgctccccacatggtgggcctttgaggttccagtaaaaa tgctttcaacaaattgggcaatgcttgtgtgattcacaatcgtggcatttaaagtgcaca

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aagtacaaaggaatttatacagattgggtttaccgaagtataatctataggaggcgcgat ggcaagttgataaaatgtgacttatctcctaataagttatggtgggagtggagctgtgcg gtttcctgtgtcttctggggtctgagtgaagatagcagggatgctgtgttcacccttctt ggtagaagctaaggtgtgagctgggaggttgctggacaggatgggggaccccagaagtcc tttatctgtgctctctgcccgccagtgccttacaatttgcaaacgtgtatagcctcagtg actcattcqctgaaatccttcqctttacca--

Please replace the paragraph at page 148, lines 13-42 with the following paragraph:

-->ak026121 (TOXMARKER Assignment: 44; SEQ ID NO:141 138) agttgctgtggaggccctggcacggctgcagcagggtgtgagcgccaccgttgcccacct tctggacctggcaggcagccggtgcgactgggagctggcgtagcccctctgagccaca ggagccgctggtgcaggacctgcaggctgctgtggccgccgtccagagtgccgtccacga gctgttggagtttgcccgcagcgcggtgggcaatgctgcccacacatctgaccgtgccct qcatqccaaqcttaqccqqcaqctqcaqaaqatggaggacgtgcaccagacgctggtggc acatggtcaggccctcgacgctggccggggaggctctggagccacccttgaggacctgga gcacggcaatgcctcactgctcttcagacggaccaaggccactgccccggggcctgaggg qqqtqqcaccctqcaccccaaccccactqacaagaccagcagcatccagtcacgacccct gccctcacccctaagttcacctcccaggactcgccagatgggcagtacgagaacagcga ggggggctggatggaggactatgactacgtccacctacaggggaaggaggagtttgagaa qacccaqaaqqaqctqctqqaaaaqqqcaqcatcacqcqqcaggqcaagaqccagctgga gttgcagcagctgaagcagtttgaacgactggaacaggaggtgtcacggcccatagacca cqacctggccaactggacgccagcccaacccctggccccggggcgaacaggcggcctggg gccctcggaccggcagctgctgctcttctacctggagcagtgtgaggccaacctgaccac ctttqtqqcqcacaqcaagttcqtcatcctcagcgcccacaagctggtgttcatcgggga cacactqtcacqqcaqqccaaqqctqctqacqtqcqcaqccaggtgacccactacagcaa cctgctgtgcgacctcctgcgcggcatcgtggccaccaccaaggccgctgccttgcagta cccatcgccttccgcggcccaggacatggtggagagggtcaaggagctgggccacagcac ccagcagttccgccgcgtcctaggccagctggcagccgcctgagggtggtgaccccagga gggaggcaggggggggggggggtcccagctccctggctcccatgtcaagagtcgctg tgccacaggcttagggacaggaccccagctctgcgtcggtcctggtgccctggatgccca ggaatctgtatatatttatggccgggcagggtgtggggccatgcctcctcaggagccgaa gcccaggggccggccagtggccttccccagcatgcaccacgggcccgggttgggtcacca gacggggctggagtgtgagggtcctgcagcctgcaggacctcgtgccaccccgagggctg agcetggtcccacgagggtgccgtgtcccctgacagggccagttgcagtttggtgtcct ccgcctttccaggagaagaacctgaagaactatttttcgttattggttttccaatcattt

Insert the enclosed sequence listing, pages 1-86, at the end of the specification.